

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form	: Substance
Name	: Melamine
Trade name	: MelaminebyOCITM GPH MelaminebyOCITM GPH LD MelaminebyOCITM SLP Melafine®
IUPAC name	: 1,3,5-Triazine-2,4,6-triamine
EC-No.	: 203-615-4
CAS-No.	: 108-78-1
REACH registration No.	: 01-2119485947-16-0000
Formula	: C ₃ H ₆ N ₆
Synonyms	: Cyanuramide; Cyanurotriamide; 2,4,6-Triamino-s-triazine

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Use of the substance/mixture	: Industrial use White crystalline powder, used in high performance products like wood-based panels, laminates, coatings, molding powders, concrete plasticizers and flame retardants
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1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet**Supplier**

OCI Nitrogen B.V.
Poststraat, 1
NL- 6135 KR Sittard
The Netherlands
T +31 (0) 46 7020205
info.melamine@oci-global.com - www.oci-global.com

Supplier

OCI Melamine Americas, Inc.
C/O Advanced Louisiana Logistics 501 Louisiana Avenue, Suite 201
LA 70802 Baton Rouge
USA
T +1 (225) 685 30 20 / 685 30 37 - F +1 (225) 685 30 03

Supplier

OCI Trading Shanghai
17N, Feizhou Guoji Building No. 899 Lingling Road
200030 Shanghai
China
T +86 (0)21 64415441 - F +86 (0)21 64415440

1.4. Emergency telephone number

Emergency number	: Alert & Care Centre Chemelot (Geleen, The Netherlands): +31 (0) 46 4765555 (24/7)
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Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Carcinogenicity, Category 2 H351

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Reproductive toxicity, Category 2 H361f
Specific target organ toxicity – Repeated exposure, Category 2 H373
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS08

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H351 - Suspected of causing cancer.
H361f - Suspected of damaging fertility.
H373 - May cause damage to organs (urinary tract) through prolonged or repeated exposure.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P280 - Wear protective gloves, protective clothing/eye protection/face protection.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,3,5-Triazine-2,4,6-triamine substance listed as REACH Candidate (Melamine)	CAS-No.: 108-78-1 EC-No.: 203-615-4 REACH-no: 01-2119485947-16-0000	100	Carc. 2, H351 Repr. 2, H361f STOT RE 2, H373

Full text of H- and EUH-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: IF exposed or concerned: Get medical advice/attention.

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First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If breathing stops, give artificial respiration. Get medical attention immediately if symptoms occur.
First-aid measures after skin contact	: Wash skin with plenty of water and soap. Remove all contaminated clothing and footwear.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.
First-aid measures after ingestion	: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Dust from this product may cause irritation to the respiratory tract.
Symptoms/effects after eye contact	: Dust from this product may cause eye irritation.
Chronic symptoms	: May damage fertility. Suspected carcinogen. May cause damage to organs (urinary tract) through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Hazardous decomposition products in case of fire. Symptoms may be delayed. Consult an expert.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam.
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5.2. Special hazards arising from the substance or mixture

Fire hazard	: The product is not flammable.
Hazardous decomposition products in case of fire	: Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, Amines, Nitrogen oxides, Ammonia, Hydrogen cyanide > 600°C / 1112°F.

5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Do not breathe dust. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Avoid sub-soil penetration. Advise local authorities if considered necessary.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Mechanically recover the product. Avoid dust formation. Keep in suitable, closed containers for disposal. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of waste product or used containers according to local regulations. Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See sections 1, 8 and 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Ensure good ventilation of the work station. Avoid dust formation. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Remove contaminated clothes. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in accordance with local, regional, national or international regulation. Store in dry, well-ventilated area. Store locked up.
- Incompatible materials : Strong oxidizing agents.
- Heat and ignition sources : Keep out of direct sunlight.
- Storage area : (1) Do not stack big bags > 1000 kg. Do not stack more than two bulk bags <=1000 kg on top of each other in connection with the risk of ripping. (2) 'MelaminebyOCI SLP' may not be stacked.

7.3. Specific end use(s)

For the detailed identified uses of the product see appendix of the safety data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

1,3,5-Triazine-2,4,6-triamine (108-78-1)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	82.3 mg/m ³
Long-term - systemic effects, dermal	11.8 mg/kg bw/day
Long-term - systemic effects, inhalation	8.3 mg/m ³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	0.42 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1.5 mg/m ³
Long-term - systemic effects, dermal	4.2 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.51 mg/l
PNEC aqua (marine water)	0.051 mg/l
PNEC aqua (intermittent, freshwater)	2 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	2.524 mg/kg dwt

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1,3,5-Triazine-2,4,6-triamine (108-78-1)	
PNEC sediment (marine water)	0.252 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.206 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	Bioaccumulation unlikely
PNEC (STP)	
PNEC sewage treatment plant	200 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Minimise exposure using measures such as closed systems, dedicated facilities and suitable general/local exhaust ventilation. See annex for more detailed information.

8.2.2. Personal protection equipment

Personal protective equipment:

When this substance/product is used in a mixture consult your industrial hygienist to adjust the personal protective equipment to the (hazard) properties of the mixture.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear eye protection

Eye protection			
Type	Use	Characteristics	Standard
Safety glasses with side shields	Dust		EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Skin and body protection	
Type	Standard
Long sleeved protective clothing	EN ISO 13982

Hand protection:

Chemically resistant protective gloves. Efficiency of at least: 80%. To increase glove efficiency additional good practice is required, e.g. provision of training or management supervision.

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Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Protective gloves	Chloroprene rubber (CR), Butyl rubber, Polyvinylchloride (PVC)	6 (> 480 minutes)	0.5		EN 374
Protective gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.35		EN 374
Protective gloves	Fluoroelastomer (FKM)	6 (> 480 minutes)	0.4		EN 374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Respiratory protection			
Device	Filter type	Condition	Standard
Dust mask	Type FFP2	Dust protection	EN 140

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. See annex for more detailed information.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: White
Appearance	: Crystalline powder
Molecular mass	: 126.12 g/mol
Odour	: Odourless, Ammoniacal slight
Odour threshold	: Not available
Melting point	: 354 °C (with vaporization)
Freezing point	: Not applicable
Boiling point	: > 280 °C Decomposes
Flammability (solid, gas)	: Not flammable
Explosive properties	: Not explosive
Oxidising properties	: Non oxidizing
Lower explosive limit (LEL)	: Not applicable
Upper explosive limit (UEL)	: Not applicable
Flash point	: > 280 °C (closed cup)
Auto-ignition temperature	: > 500 °C
Decomposition temperature	: > 280 °C
pH	: 7.8 – 9.5 (10% aqueous suspension)
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Slightly soluble Water: 0.348 g/100ml (@ 20°C / 68°F)
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: -1.14 (@ 25°C / 77°)
Vapour pressure	: < 0.02 kPa (@ 20°C / 68°F)
Vapour pressure at 50°C	: Not available
Density	: 1.57 g/cm ³
Relative density	: 1.57 (@ 20°C / 68°F)
Relative vapour density at 20°C	: 4.34 (air = 1)
Particle size	: Not available

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Particle size distribution : Available on request

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Other properties : Ignition temperature: ≥ 658 °C / 1216.4 °F

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat. Keep away from any flames or sparking source.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition can lead to the release of irritating gases and vapours. Thermal decomposition generates: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Amines, Ammonia, Hydrogen cyanide > 600°C / 1112°F.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

1,3,5-Triazine-2,4,6-triamine (108-78-1)	
LD50 oral rat	3161 mg/kg bodyweight
LC50 Inhalation - Rat	> 5.19 mg/l/4h (OECD 403 method)
Skin corrosion/irritation	: Not classified pH: 7.8 – 9.5 (10% aqueous suspension)

1,3,5-Triazine-2,4,6-triamine (108-78-1)	
pH	Aqueous solution
Serious eye damage/irritation	: Not classified pH: 7.8 – 9.5 (10% aqueous suspension)

1,3,5-Triazine-2,4,6-triamine (108-78-1)	
pH	Aqueous solution
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

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1,3,5-Triazine-2,4,6-triamine (108-78-1)	
IARC group	2B - Possibly carcinogenic to humans
1,3,5-Triazine-2,4,6-triamine (108-78-1)	
LOAEL, Chronic, oral, rat	126 mg/kg bw/day
Reproductive toxicity	: Suspected of damaging fertility.
1,3,5-Triazine-2,4,6-triamine (108-78-1)	
NOAEL (animal/male, F0/P)	268 mg/kg bodyweight Fertility
NOAEL (animal/male, F1)	89 mg/kg bodyweight Fertility
Target organ(s)	testis, Sperm
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (urinary tract) through prolonged or repeated exposure.
1,3,5-Triazine-2,4,6-triamine (108-78-1)	
NOAEL (oral, rat, 90 days)	72 mg/kg bodyweight/day
Aspiration hazard	: Not classified
Melamine (108-78-1)	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Contains no substances identified as having endocrine disrupting properties

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Not rapidly degradable

1,3,5-Triazine-2,4,6-triamine (108-78-1)	
LC50 fish 1	> 3000 mg/l Oncorhynchus mykiss
EC50 Daphnia 1	200 mg/l Daphnia magna
EC50 96h - Algae [1]	325 mg/l Pseudokirchneriella subcapitata
NOEC chronic fish	≥ 5.1 mg/l Pimephales promelas (36d), OECD Guideline 210
NOEC chronic crustacea	≥ 11 mg/l (21d) Daphnia magna
NOEC chronic algae	98 mg/l Species: Pseudokirchneriella subcapitata
NOEC, microorganisms	2000 mg/l

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12.2. Persistence and degradability

1,3,5-Triazine-2,4,6-triamine (108-78-1)

Persistence and degradability	Not readily biodegradable. Not inherently biodegradable.
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12.3. Bioaccumulative potential

Melamine (108-78-1)

Partition coefficient n-octanol/water (Log Pow)	-1.14 (@ 25°C / 77°)
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1,3,5-Triazine-2,4,6-triamine (108-78-1)

BCF fish 1	< 3.8 l/kg
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

1,3,5-Triazine-2,4,6-triamine (108-78-1)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.13 Quantitative structure-activity relationship (QSAR)
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12.5. Results of PBT and vPvB assessment

Melamine (108-78-1)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Recycling is preferred to disposal or incineration. Do not re-use empty containers without proper cleaning or reconditioning. Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

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ADR	IMDG	IATA	ADN	RID
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Other information, restriction and prohibition regulations

: For pregnant/breastfeeding women (92/85/EC): National employment prohibitions and restrictions have to be observed.
For young people, <18 years (94/33/EC): National employment prohibitions and restrictions have to be observed.

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Listed on the REACH Candidate List: Melamine

Contains substance(s) listed on the REACH Candidate List in concentrations $\geq 0.1\%$ or SCL: Melamine (EC 203-615-4, CAS 108-78-1)

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

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Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Logo. Classification. Label elements. Toxicological information. Annex to the safety data sheet.

Training advice : Training staff on good practice. Ensure staff are informed of and trained on the nature of exposure and basic actions to minimise exposure.

Abbreviations and acronyms:	
PBT	Persistent Bioaccumulative Toxic
vPvB	Very Persistent and Very Bioaccumulative
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ICAO	International Civil Aviation Organization
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
DNEL	Derived-No Effect Level
PNEC	Predicted No-Effect Concentration
EC50	Median effective concentration
NOEC	No-Observed Effect Concentration
BCF	Bioconcentration factor
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
DMEL	Derived Minimal Effect level
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IARC	International Agency for Research on Cancer
EC-No.	European Community number
EN	European Standard
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
OECD	Organisation for Economic Co-operation and Development
STP	Sewage treatment plant
CAS-No.	Chemical Abstract Service number

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Abbreviations and acronyms:	
NOAEL	No-Observed Adverse Effect Level
ATE	Acute Toxicity Estimate
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
NOAEC	No-Observed Adverse Effect Concentration
OEL	Occupational Exposure Limit
SDS	Safety Data Sheet
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
N.O.S.	Not Otherwise Specified
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Carc. 2	Carcinogenicity, Category 2
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
Repr. 2	Reproductive toxicity, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Safety Data Sheet applicable for regions : IE - Ireland

SDS EU (REACH Annex II) - RHDHV

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.